

Linear Growing Patterns 1**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Write the next 2 terms in this pattern.
12, 17, 22, 27, ...
a. 33, 39 b. 32, 37 c. 31, 36 d. 37, 42
- _____ 2. This expression represents the n th in a number pattern. Write the first 4 terms of the pattern.
 $5n + 6$
a. 6, 11, 16, 21 b. 0, 11, 16, 21 c. 11, 16, 21, 26 d. 5, 10, 15, 20
- _____ 3. Let n be the term number. Write an expression for the n th term in this pattern.
-4, 1, 6, 11, 16, ...
a. $6n - 10$ b. $-10n + 6$ c. $-9n + 5$ d. $5n - 9$
- _____ 4. Let n be the term number. Write an expression for the n th term in this pattern.
3, 7, 11, 15, 19, 23, ...
a. $4n + 1$ b. $5n - 1$ c. $n + 4$ d. $4n - 1$
- _____ 5. This table shows how the term value relates to the term number of a pattern.
Write an expression for the n th term in the pattern.

Term Number	1	2	3	4	5
Term Value	9	12	15	18	21

- a. $5n + 4$ b. $6n + 3$ c. $3n + 6$ d. $4n + 5$

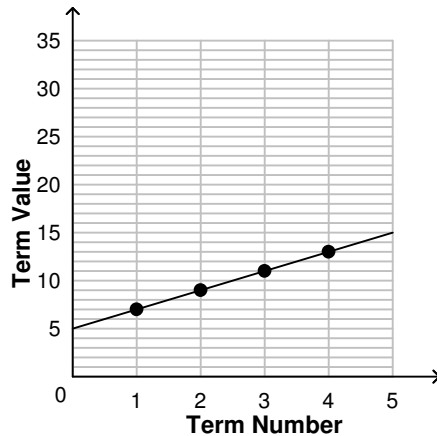
Name: _____

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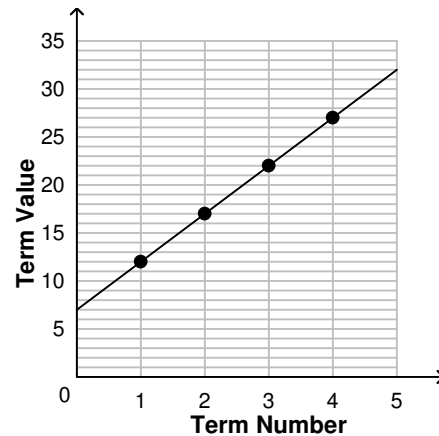
6. This table shows how the term value relates to the term number in a pattern.
Graph the pattern.

Term Number	1	2	3	4
Term Value	7	9	11	13

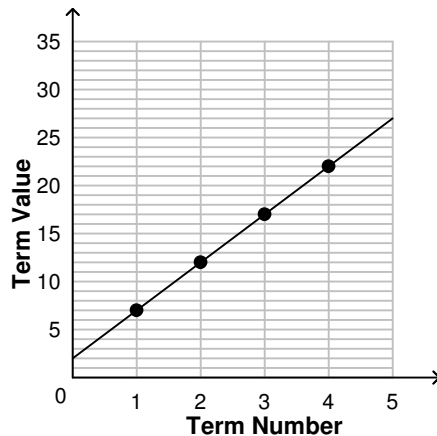
a.



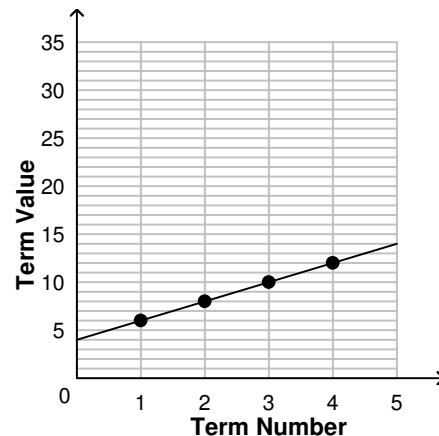
c.



b.



d.



Short Answer

7. Here is the beginning of a number pattern. $-5, -3, -1, 1, \dots$
- Write a pattern rule.
 - Write an expression for the n th term in this pattern.
 - Find the 10th term.

Problem

8. Let n be the term number.
Explain how you determine an expression that represents the n th term of this pattern.
 $10, 14, 18, 22, \dots$